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Stable isotope composition of precipitation in Croatia

M. Mandic (1), D. Takac (1), H. O. Lutz (1,2), Z. Roller-Lutz (1)

(1) School of Medicine, Rijeka University, Rijeka, Croatia, (2) Physics Faculty, Bielefeld University, Bielefeld, Germany (roller@medri.hr / Fax: +385 51-651 124)

The water management in Croatia is a national priority since about 50% of the country consists of karst. It is thus of vital interest to have a complete as possible knowledge of all related factors, including the precipitation as the input into the water system. Besides meteorological data, isotopic tracers are important tools to understand and quantify this complex problem. Very little information exists, however, about the isotopic composition of precipitation in Croatia. Therefore, we propose to collect precipitation through the GLOBE program in order to establish an atlas of the isotopic composition of precipitation for as wide an area of Croatia as possible. GLOBE (Global Learning and Observations to Benefit the Environment) is a worldwide primary and secondary school-based science and education program. In Croatia, about 100 schools are involved in GLOBE, and about 25 contribute in this nationwide collection of precipitation. These samples are then sent to and analysed in the Stable Isotope Laboratory at Rijeka University (SILab Rijeka). First results will be shown at the Conference.